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for Evolution Lab  
Activity. The study of evolution using homology consists of a classification method based on analysis of antigen-antibody complexes found in the blood. Using a modified Nuttall precipitation technique, students will identify the source of each sample.

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Objectives: To examine amino acid sequences from different species and, using this information, determine the evolutionary relationships that may exist between them.

Background: The biochemical comparison of proteins is a technique used to determine evolutionary relationships among groups of organisms.

**Lab Biochemical**

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Thus, scientists use biochemical evidence (the amino acid sequence of proteins) to establish how organisms have evolved. Hemoglobin, a component of red blood cells, is one of the most widely studied of all proteins. In this activity, you will analyze the amino acid sequence of the hemoglobin protein in



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three species: human,  
horse and gorilla.

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**Student Work**

**Evolution LAB#23:**

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Biochemical Evidence  
for Evolution -Adapted  
from McDougal Littell -  
Biology Labs

INTRODUCTION: One  
method scientists use  
to help determine the  
evolutionary  
relationships between  
organisms is to analyze

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and compare the molecular structure of proteins. Recall that proteins are made up of chains of amino acids.

## **Biochemical Evidence for Evolution**

With all of the evidence for evolution ,gathered by biochemical means, the theory has gained popularity not only within the scientific community but also

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the general public.

Compatibility.

Divergence of Species

and the formation of

New Species.

Population Pressures:

Bottle Neck, Founders

Effect. Charles Darwin

and Fitness.

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organisms have similar DNA molecules, they have similar proteins. Similar proteins have similar amino acid sequences (orders). Thus, if amino acid sequences are similar, DNA of the organisms is similar. Scientists believe that similar DNA sequences indicate a common origin. The more similar the DNA of

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The theory of evolution is supported by biochemical evidence; many of the same molecules and biochemical processes occur within all living organisms, from single-cell bacteria to humans. Originally, scientists couldn't understand how the process of evolution began, but they later

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discovered that RNA possesses catalytic properties.

## **What Biochemical Evidence Is There for Evolution?**

Origins and biochemical evidence. By studying the basic biochemistry shared by many organisms, we can begin to piece together how biochemical systems evolved near the root of the tree of life.

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However, up until the early 1980s, biologists were stumped by a "chicken and egg" problem: in all modern organisms, nucleic acids (DNA and RNA) are necessary to build proteins, and proteins are necessary to build nucleic acids - so which came first, the nucleic acid or the protein?

**Origins and  
biochemical  
evidence - Evolution**

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Evidence for evolution:

anatomy, molecular

biology, biogeography,

fossils, & direct

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Evolution and natural

selection. Introduction

to evolution and

natural selection. Ape

clarification. Natural

selection and the owl

butterfly.

**Evidence for  
evolution (article) |**



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With the technology available to scientists today, there are many ways to support the Theory of Evolution with evidence. DNA similarities between species, knowledge of developmental biology, and other evidence for microevolution are abundant, but scientists haven't always had the capabilities to examine these types of

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Lab Activity. The study  
of evolution using  
homology consists of a  
classification method  
based on analysis of  
antigen-antibody  
complexes found in the

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blood. Using a modified

Nuttall precipitation

technique, students

will identify the source

of each sample.

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**Answer Key | id ...**

16) biochemistry is

considered the best

evidence for evolution.

An important protein in

animals called

cytochrome c is used

during cellular

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respiration. There are fewer differences in the amino acid sequence of this protein between more closely related species.

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Amino Acid Sequences  
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in Amino Acids**

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Here's a brief summary of the evidence that supports the theory of evolution by natural selection: Biochemistry is the study of the basic chemistry and processes that occur in cells. The biochemistry of all living things on Earth is incredibly similar, showing that all of Earth's organisms share a common ancestry.

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## **What Evidence Supports the Theory of Evolution? - dummies**

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When Charles Darwin

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first proposed the idea that all new species descend from an ancestor, he performed an exhaustive amount of research to provide as much evidence as possible. Today, the major pieces of evidence for this theory can be broken down into the fossil record, embryology, comparative anatomy, and molecular biology.

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**Evolution-Answers in  
gray Background 12  
Fossils**  
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Sterol biosynthesis is nearly ubiquitous among eukaryotes; conversely, it is almost completely absent in prokaryotes (1). As a result, the presence of diverse steranes in ancient rocks is used as evidence for eukaryotic evolution >2.7 billion years ago (2). However, the occasional presence of



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sterols in prokaryotes  
is poorly understood.  
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